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FIRST NAMED INVENTOR APPLICATION NO. FILING DATE ATTORNEY DOCKET NO. CONFIRMATION NO. 09/453,498 12/03/1999 BRUCE R. SMITH 013550-069 2714 02/10/2004 **EXAMINER** 7590 MICHAEL W. FERRELL, ESQ. KIM, EUGENE LEE FERRELLS, PLLC ART UNIT PAPER NUMBER P.O. BOX 312 CLIFTON, VA 20124-1706 3721 DATE MAILED: 02/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No		Applicant(s)	4	
<i></i>		09/453,498		SMITH ET AL.		
	Office Action Summary	Examiner		Art Unit		
		Eugene L Kim		3721	<u> </u>	
Period fo	The MAILING DATE of this communication apport	pears on the cove	r sheet with the co	rrespondence ad	ldress	
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. a period for reply specified above is less than thirty (30) days, a repl or period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, how ly within the statutory mi will apply and will expire a, cause the application	vever, may a reply be time nimum of thirty (30) days I SIX (6) MONTHS from the to become ABANDONED	ly filed will be considered timel e mailing date of this c (35 U.S.C. § 133).		
Status						
1)	Responsive to communication(s) filed on 22 D	<u> December 2003</u> .				
2a)⊠	This action is FINAL . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4)⊠	Claim(s) <u>1-26</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠	Claim(s) <u>22</u> is/are allowed.					
6)⊠	Claim(s) <u>1-21, 23-26</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)[) Claim(s) are subject to restriction and/or election requirement.					
Applicat	ion Papers					
9)[The specification is objected to by the Examine	er.				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the Ex	xaminer. Note the	e attached Office A	Action or form P	ГО-152.	
Priority (under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea See the attached detailed Office action for a list	ts have been reco ts have been reco prity documents h u (PCT Rule 17.2	eived. eived in Applicatio ave been received 2(a)).	n No I in this National	Stage	
Attachmen	ıt(s)					
_	ce of References Cited (PTO-892)	4) 🗀	Interview Summary (I	PTO-413)		
2) Notice	ce of Draftsperson's Patent Drawing Review (PTO-948)	, -	Paper No(s)/Mail Date	e ·) 152\	
. —	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date) 5) <u></u> 6) <u></u>	Notice of Informal Pa Other:	tent Application (PTC	J-132)	

Application/Control Number: 09/453,498

Art Unit: 3721

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. Claims 1-21, 23-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Van Handel et al in view of Gospe et al as discussed in paragraph 2 of the last office action. Regarding the annular shape of the cast-in heater, Gospe et al disclose the heater is placed within recesses 30 which infers that the heater 32 would be annular in shape to fit into the recess/hole 30.
- 2. Claim 22 is allowed.
- 3. Applicant's arguments filed 12/22/2003 have been fully considered but they are not persuasive. In response to applicants argument regarding the Declaration of Dana Markwell, the examiner notes that secondary reference Gospe et al is being used to teach the concept that cast-in heaters are interchangeable with various heating elements as discussed in col 4 lines 48+. Therefore, the combination is deemed proper and obvious to one of ordinary skill in the art.
- 4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Application/Control Number: 09/453,498

Art Unit: 3721

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eugene L Kim whose telephone number is 703 308-1886. The examiner can normally be reached on Tuesday-Friday 8 a.m. to 6 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rinaldi Rada can be reached on 703 308-2187. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

EUGENE KIM
PRIMARY EXAMINER